CRITICAL ITEMS LIST (CIL)

SYSTEM:	Thermal Protection System	FUNCTIONAL CRIT:	1
SUBSYSTEM:	Components	PHASE(S):	b
REV & DATE:	J, 12-19-97	HAZARD REF:	T.02
DCN & DATE:			
ANALYSTS:	B. Burkes/R. Lauto		

FAILURE MODE: Loss of SLA Material

FAILURE EFFECT: b) Loss of mission and vehicle/crew due to debris impacting Orbiter in critical areas.

TIME TO EFFECT: Seconds

FAILURE CAUSE(S): A: Material Deficiency
B: Process Deficiency

REDUNDANCY SCREENS: Not Applicable

FUNCTIONAL DESCRIPTION: This ablative material provides protection for the LO2 feedline bracket from ascent heating environments.

FMEA ITEM CODE(S)	PART NO.	PART NAME	QTY	EFFECTIVITY
5.8.13.1	80971028460	Yoke Assy, SLA Appl	4	LWT-54 & Up
	80971028460	Yoke Assy, Inj Mld SLA	1	LWT-54 & Up
	80974028460	Fitting Assy, TPS Appl	1	LWT-54 & Up

REMARKS: The LO2 feedline bracket related SLA applications are grouped as the failure mode, causes and effects are the same.

SYSTEM:	Thermal Protection System	REV & DATE:	J, 12-19-97
SUBSYSTEM:	Components	DCN & DATE:	
FMEA ITEM CODE(S):	5.8.13.1		

RATIONALE FOR RETENTION

STP1509, 1510, 1520, 3001, 3003 and 5013 are applicable to this FMEA Item Code. See Page 1 for Retention Rationale specified by these STP's. The following additional Retention Rationale is also applicable to this FMEA Item Code:

DESIGN:

No additional Rationale for Retention is applicable.

TEST:

The LO2 Feedline Bracket related SLA applications are certified. Reference MCS's MMC-ET-TM08-L-T014 and T505. Refer to the MCS(s) for effectivity data applicable to specific part numbers and material type.

INSPECTION:

No additional Rationale for Retention is applicable.

FAILURE HISTORY:

Current data on test failures, unexplained anomalies and other failures experienced during ground processing activity can be found in the PRACA data base.